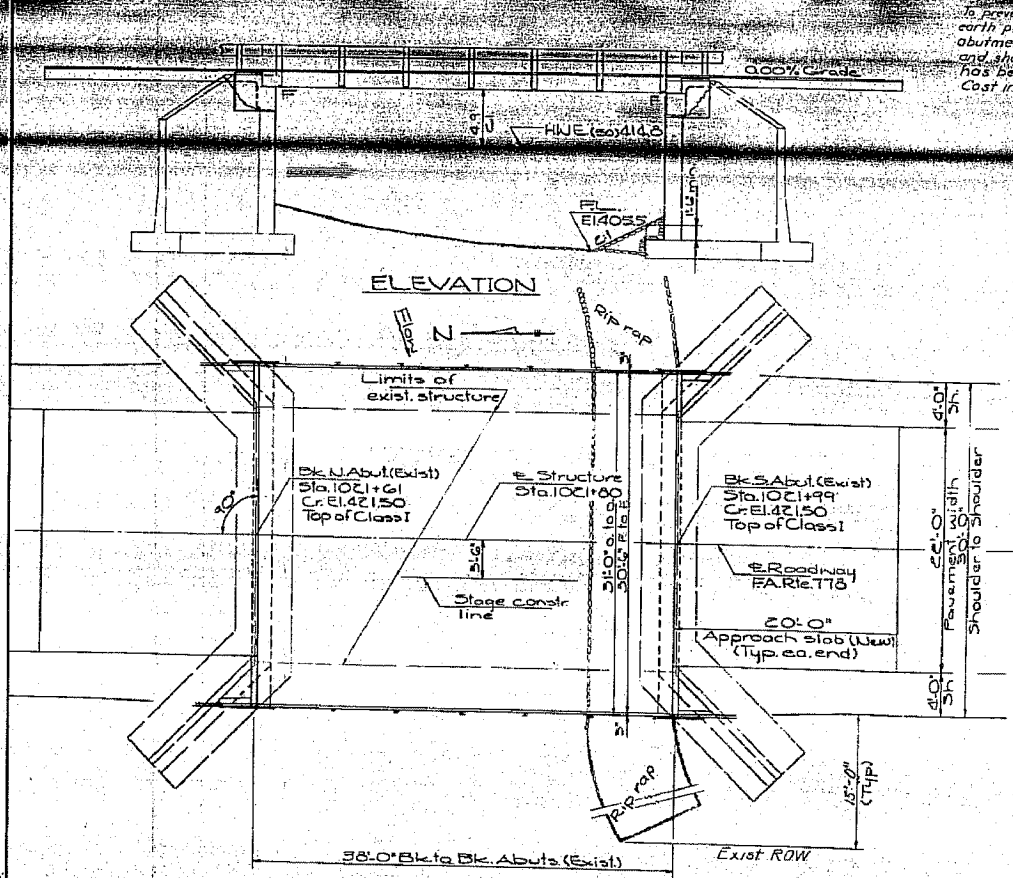


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	4BR-1	HARDIN	69	58
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

Bench Mark: RR spike in PP RI of E. 75' back of Wn 554 E14218
 Exist. Structure: No. 035-0008 built as DBI Rte. 34, Sec. 4B in 1923
 RC thru girder span, RC closed abutments.
 The Contractor shall remove the existing superstructure in place and provide a new wider superstructure with RRC deck beams and widen the substructure.
 Traffic shall be maintained at all times utilizing stage construction.
 No salvage.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

778	4BR-1	HARDIN	78	58
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To prevent damage to the abutments from weathered earth pressure, adequate struts shall be placed of the abutments before the existing superstructure is removed and shall remain in place until the new superstructure has been erected.
 Cost incidental.

GENERAL NOTES
 The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specifications except that the surface shall not be finished to a smooth finish. The finished surface shall be free of deep spots or irregularities with sharp corners.
 Expansion bolts shall consist of self-drilling expansion anchors and 3/8" x 12" hooked bolts.
 Reinforcement bars shall conform to the requirements of AASHTO M31 Grade 60.
 It shall be the responsibility of the contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.

STATION 1021+80
 REBUILT 197 BY
 STATE OF ILLINOIS
 F.A.R.T.E. 778 SEC 4BR
 LOADING HS 20
 STR. NO. 035-0008
 NAME PLATE
 See Std. 2113

TOTAL BILL OF MATERIALS

Item	Units	Super	Sub	Total
Class X Concrete	Cu Yds	14.4		14.4
Reinforcement bars	Lbs.	1450		1450
Name Plate	Ea.	1		1
RRC Deck Beams (17)	Sq. Ft.	1157		1157
RRC Mortar Facing Crs.	Lin. Ft.	336		336
Bit Concr. Surf. Cse. G.I.	Tons	11		11
Rem. of Exist. Super-Struct.	Ea.	1		1
Waterproofing Mem. Sys.	Sq. Yds	129		129
Temporary Guardrail	Lin. Ft.	36		36
Steel Railing Type S	Lin. Ft.	75		75
Concrete Removal	Cu. Yds		7	7
Temporary Support System	L. Sum		1	1
Expansion Bolts 3/8"	Ea.		52	52
Stone Riprap	Sq. Yds		60.0	60.0

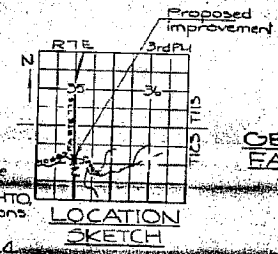
*See Special Provision.

WATERWAY INFORMATION
 Drainage Area: 2.83 Sq. Mile
 Design Discharge (50yr): 1530 cfs
 Existing Opening: 299.52 FT
 Required Opening: 299.52 FT
 Proposed Opening (below 50yr HWE): 299.52 ft
 Created Head for Design Flood (50yr): 0.17' @ 100 Year Discharge
 Created Head for 100 Year Flood: 0.30' HWE (100yr)
 415.14

DESIGN STRESSES
 $f_c = 5000 \text{ psi}$
 $f_y = 60,000 \text{ psi - Reinf.}$

PRECAST PRESTRESSED UNITS
 $f_c = 5000 \text{ psi}$
 $f_c = 4000 \text{ psi}$
 $f_s = 270,000 \text{ psi - } 1/2" \text{ strands}$
 $f_s = 189,000 \text{ psi - } 1/4" \text{ strands}$
 Allow 25 lbs/sq ft for future wearing surface

Design Specifications - 1973 AASHTO
 1974, 1975, 1976 & 1977 Interim Specifications
 DESIGN LOADING: HS20-44



GENERAL PLAN & ELEVATION
 F.A.R.T.E. 778 OVER HOBBS CREEK
 EA ROUTE 778
 SECTION 4BR-DR
 HARDIN COUNTY
 STATION 1021+80

DESIGNED: D.R. Gattard
 CHECKED: J. R. Babin
 DRAWN: DAG
 CHECKED: JLR
 February 19 1978
 EXP. ENG. Carl Chapman
 PASSED

PLOT DATE
 FILE NAME
 PLOT SCALE
 USER NAME



FOR INFORMATION ONLY

EXISTING STRUCTURE PLANS
 F.A.P. ROUTE 778 (IL ROUTE 34)
 SECTION 4BR-1
 HARDIN COUNTY